

DAFTAR PUSTAKA

- Ahuchaogu, A. A., O. J. Chukwu, and J. O. Echeme. 2017. Secondary metabolites from *Mimosa pudica*: isolation, purification and NMR characterization. *IOSR Journal of Applied Chemistry* 10(3):15-20.
- Anith, K. N., N. S. Nysanth, and C. Natarajan. 2021. Novel and rapid agar plate methods for in vitro assessment of bacterial biocontrol isolates' antagonism against multiple fungal phytopathogens. *Letters in Applied Microbiology* 73(2): 229-236.
- Arifin, Z., dan M. S. Ratu-Rihi. 2008. Deskripsi pisang beranga pada dua habitat yang berbeda. *Jurnal Pertanian Terapan* 15(2): 121-128.
- Arwiyanto, T., E. Handini, dan T. Martoredjo. 1997. Dinamika Populasi *Pseudomonas solanacearum* pada Rizosfer Tanaman Bukan Inang. *Jurnal Perlindungan Tanaman Indonesia* 3(2): 81-85.
- Badan Pusat Statistik (BPS). 2022. Statistik Hortikultura 2022. <https://www.bps.go.id/publication/2023/06/09/03847c5743d8b6cd3f08ab76/statistik-hortikultura-2022.html>. Diakses pada 20 Desember 2023.
- Balan., S. S., R. Nethaji, S. Sankar, S. Jayalakshmi. 2012. Production of gelatinase enzyme from *Bacillus* spp. isolated from the sediment sample of Porto Novo Coastal sites. *Asian Pacific Journal of Tropical Biomedicine* 2(3): 1811-1816.
- Balint-Kurti, P. 2019. The plant hypersensitive response: concepts, control and consequences. *Molecular plant pathology* 20(8): 1163-1178.
- Bastasa, G. N., and A. A. Baliad. 2005. Biological control of *Fusarium* wilt of abaca (*Fusarium oxysporum*) with *Trichoderma* and yeast. *Philippine Journal of Crop Science* 30(2): 29-37.
- Bhattacharjee, A., and S. Debnath. 2019. Evaluation of leguminous cover crop and banana bio-mat mulching for weed suppression and conservation of soil moisture and nutrient in guava orchard. *Journal of Crop and Weed* 15(1): 170-177.
- Bitas, V., H. S. Kim, J. W. Bennett, and S. Kang. 2013. Sniffing on microbes: diverse roles of microbial volatile organic compounds in plant health. *Molecular Plant-Microbe Interactions* 26(8): 835-843.
- Briard, B., V. Rasoldier, P. Bomme, N. Elaouad, C. Guerreiro, P. Chassagne, L. Muszkieta, J.-P. Latge, L. Mulard, and A. Beauvais. 2017. Dirhamnolipids secreted from *Pseudomonas aeruginosa* modify anjpeungal susceptibility of *Aspergillus fumigatus* by inhibiting β 1,3 glucan synthase activity. *International Society for Microbial Ecology Journal* 11(7): 1578-1591.
- CABI. 2021. *Fusarium oxysporum* f. sp. *ubense* (Panama disease of banana). <https://www.cabidigitallibrary.org/doi/10.1079/cabicompendium.24621>. Diakses pada 20 Januari 2024.
- Chandra, H., P. Kumari, R. Bisht, R. Prasad, and S. Yadav. 2020. Plant growth promoting *Pseudomonas aeruginosa* from *Valeriana wallichii* displays antagonistic potential against three phytopathogenic fungi. *Molecular Biology Reports* 47(8): 6015-6026.
- Chatterjee, P., G. Sass, W. Swietnicki, and D. A. Stevens. 2020. Review of potential *Pseudomonas* weaponry, relevant to the *Pseudomonas*–*Aspergillus* interplay, for the mycology community. *Journal of Fungi* 6(2).

- Cheng, C., F. Liu, X. Sun, N. Tian, R. A. Mensah, D. Li, and Z. Lai. 2019. Identification of *Fusarium oxysporum* f. sp. *ubense* Tropical Race 4 (Foc TR4) responsive miRNAs in banana root. *Scientific Reports* 9(1).
- Chitra, G., K. A. Athira, and C. T. Anitha. 2012. Phytochemical screening and antibacterial activity of *Mimosa pudica* and *Mimosa invisa* against selected microbes. *Nature Environment and Pollution Technology* 11(3): 431-433.
- Ch'ng, Y. R., C. S.Y. Yong, S. N. Othman, N. A. I. M. Zainudin, and M. Mustafa. 2022. Isolation and molecular identification of a siderophore producing bacterium and its antagonistic effect against *Fusarium oxysporum* f. sp. *ubense* Tropical Race 4. *Pertanika Journal of Tropical Agricultural Science* 45(1): 187-206.
- Damayanti, S. S., O. Komala, dan E. M. Effendi. 2018. Identifikasi bakteri dari pupuk organik cair isi rumen sapi. *Ekologia : Jurnal Ilmiah Ilmu Dasar dan Lingkungan Hidup* 18(2): 63-71
- Dash, C., and R. J. Payyappilli. 2016. KOH string and vancomycin susceptibility test as an alternative method to Gram staining. *Journal of International Medicine and Dentistry* 3(2): 88-90.
- Dwivedi, D., and B. N. Johri. 2003. Antifungals from fluorescent pseudomonads: biosynthesis and regulation. *Current Science* 85(12): 1693-1703.
- Ebrahimi, P., F. van den Berg, S. D. Aunbjerg, A. Honoré, C. Benfeldt, H. M. Jensen, and B. S. Engelsen 2015. Quantitative determination of mold growth and inhibition by multispectral imaging. *Food Control* 55: 82-89.
- Food and Agriculture Organization of the United Nations. 2020. Abaca Future Fibres. <https://www.fao.org/economic/futurefibres/fibres/abaca0/en/>. Diakses pada 20 Januari 2024.
- Galkiewicz, J. P., and C. A. Kellogg. 2008. Cross-kingdom amplification using bacteria-specific primers: complications for studies of coral microbial ecology. *Applied and environmental microbiology* 74(24): 7828-7831.
- Garrido-Sanz, D., E. Arrebola, F. Martínez-Granero, S. García-Méndez, C. Muriel, E. Blanco-Romero, M. Martín, R. Rivilla, and M. Redondo-Nieto. 2017. Classification of isolates from the *Pseudomonas fluorescens* complex into phylogenomic groups based in group-specific markers. *Frontiers in Microbiology* 8:(413).
- Gkizi, D., S. Lehmann, F. L'Haridon, M. Serrano, E. J. Paplomatas, and J. P. Métraux. 2016. The innate immune signaling system as a regulator of disease resistance and induced systemic resistance activity against *Verticillium dahlia*. *Mol. Plant Microbe Interact.* 29: 313–323.
- Guardiola-Márquez, C. E., M. T. Santos-Ramírez, M. L. Figueroa-Montes, E. O. Valencia-de Los Cobos, I. J. Stamatis-Félix, D. E. Navarro-López, and D. A. Jacobo-Velázquez. 2023. Identification and characterization of beneficial soil microbial strains for the formulation of biofertilizers based on native plant growth-promoting microorganisms isolated from northern Mexico. *Plants* 12(18).
- Guevara-Avendano, E., Bejarano-Bolivar, A. A., Kiel-Martinez, A. L., Ramirez-Vazquez, M., Mendez-Bravo, A., Von Wobeser, E. A., et al. (2019). Avocado rhizobacteria emit volatile organic compounds with antifungal activity against *Fusarium solani*, *Fusarium* sp. associated with Kuroshio shot hole borer, and *Colletotrichum gloeosporioides*. *Microbiological Research* 219: 74–83.
- Hapsari, L., J. Damaiyani, T. Yulistyarini, I. Auliya, L. H. Gusmiati, and R. M. Zaro. 2022. Characterization, potential and conservation of Pisang Kates (*Musa* cv.

- ABB), a unique local banana cultivar from Pasuruan, East Java, Indonesia. *Biodiversitas Journal of Biological Diversity* 23(7): 3521-3532.
- Hardiansyah, M. Y., Y. Musa, dan A. M. Jaya. 2020. Identifikasi Plant Growth Promoting Rhizobacteria pada rizosfer bambu duri gram KOH 3%. *Agrotechnology Research Journal* 4(1): 41 - 46.
- Hartanto, P., P. Sedijani, L. Zulkifli, and M. Erniarti. 2022. The effect of lemongrass (*Cymbopogon nardus*) extract in inhibiting bread fungal growth, *Aspergillus oryzae* using a combination of N-Hexane-Ethanol solvent. *Jurnal Biologi Tropis* 22(1): 349-355.
- Irish, B. M., H. E. Cuevas, S. A. Simpson, B. E. Scheffler, J. Sardos, R. Ploetz, and R. Goenaga. 2014. *Musa* spp. germplasm management: microsatellite fingerprinting of USDA-ARS national plant germplasm system collection. *Crop Science* 54(5): 2140-2151.
- Joseph, B., J. George, J. Mohan. 2013. Pharmacology and traditional uses of *Mimosa pudica*. *International Journal of Pharmaceutical Sciences and Drug Research* 5 (2): 41-44.
- Kalman B., Abraham D, Graph S, Perl-Treves R, Meller Harel Y, Degani O (2020) Isolation and identification of *Fusarium* spp, the causal agents of onion (*Allium cepa*) basal rot in northeastern Israel. *Biology* 9(4):69
- Li, C., Chen, S., Zuo, C., Sun, Q., Ye, Q., Yi, G., and B. Huang. 2011. The use of GFP-transformed isolats to study infection of banana with *Fusarium oxysporum* f. sp. *ubense* race 4. *European Journal of Plant Pathology* 131(2): 327-340.
- Li, C., J. Yang, W. Li, J. Sun, and M. Peng. 2017. Direct root penetration and rhizome vascular colonization by *Fusarium oxysporum* f. sp. *ubense* are the key steps in the successful infection of Brazil Cavendish. *Plant Disease* 101(12): 2073-2078
- Li, S., J. Ma, S. Li, F. Chen, C. Song, H. Zhang, M. Jiang, and N. Shen. 2022. Comparative transcriptome analysis unravels the response mechanisms of *Fusarium oxysporum* f. sp. *ubense* to a biocontrol agent, *Pseudomonas aeruginosa* Gxun-2. *International Journal of Molecular Sciences* 23(23): 15432.
- Majeed, I., K. Rizwan, A. Ashar, T. Rasheed, R. Amarowicz, H. Kausar, M. Zia-Ul-Haq, and L. G. Marceanu. 2021. A comprehensive review of the ethnotraditional uses and biological and pharmacological potential of the genus *mimosa*. *International Journal of Molecular Sciences* 22(14).
- Mann, E. E., and D. J. Wozniak. 2012. *Pseudomonas* biofilm matrix composition and niche biology. *Federation of European Microbiological Societies Microbiology Reviews* 36(4): 893-916.
- Martínez-Solórzano G. E., J. C. Rey-Brina, R. E. Pargas-Pichardo, and E. E. Manzanilla. 2019. *Fusarium* wilt by tropical race 4: Current status and presence in the American continent. *Agronomía Mesoamericana* 31(1): 259-276.
- Meera, T. and P. Balabaskar. 2012. Isolation and characterization of *Pseudomonas fluorescens* from rice fields. *International Journal of Food, Agriculture and Veterinary Sciences* 2 (1): 113-120.
- Mon, Y. Y., S. S. Bidabadi, K. S. Oo, and S. J. Zheng. 2021. The antagonistic mechanism of rhizosphere microbes and endophytes on the interaction between banana and *Fusarium oxysporum* f. sp. *ubense*. *Physiological and Molecular Plant Pathology* 116: 101733.

- Nasir, N., Jumjunidang, F. Eliesti, dan Y. Meldia. 2003. Penyakit layu panama pada pisang: observasi Ras 4 *Fusarium oxysporum* f. sp. *cubense* di Jawa Barat. *Jurnal Hortikultura* 13(4): 269-275.
- Nepali, B., S. Bhattarai, and J. Shrestha. 2018. Identification of *Pseudomonas fluorescens* using different biochemical tests. *International Journal of Applied Biology* 2(2): 27-32.
- Nursanti, I. 2017. Teknologi produksi dan aplikasi mikroba pelarut hara sebagai pupuk hayati. *Jurnal Media Pertanian* 2(1): 24 – 36.
- Omar., M. M. and J. M. Awda. 2022. Production of levansucrase from local isolate *Bacillus lichniformans* MJ8 and enzymic synthesis and characterization of levan. *Applied Microbiology* 8(4): 1-9.
- Pereira A, Maraschin M. 2015. Banana (*Musa* spp.) from peel to pulp: ethnopharmacology, source of bioactive compounds and its relevance from human health. *J Ethnopharmacol* 160: 149-163.
- Perrier, X., E. De Lange, M. Donohue, C. Lentfer, L. Vrydaghs, F. Bakry, et al. 2011. Multidisciplinary perspectives on banana (*Musa* spp.) domestication. *Proc. Natl. Acad. Sci. USA* 108:11311– 11318.
- Ploetz RC, 2006. Fusarium wilt of banana is caused by several pathogens referred to as *Fusarium oxysporum* f. sp. *cubense*. *Phytopathology* 96: 653–656.
- Ploetz, R. C. 2015. Management of Fusarium wilt of banana: A review with special reference to tropical race 4. *Crop Protection*, 73: 7–15.
- Ploetz, R. C. 2000. Panama Disease: A Classic and Destructive Disease of Banana. *Plant Health Progress* 10(1).
- Poerba, Y. S. Martanti, D. Handayani, T. Herlina. dan Witjaksono. 2016. Katalog Pisang Koleksi Kebun Plasma Nutfah Pisang Pusat Penelitian Biologi. Jakarta: Lembaga Ilmu Pengetahuan Indonesia (LIPI).
- Purwanto, U. M. S., F. H. Pasaribu, M. Bintang. 2014. Isolasi bakteri endofit dari tanaman sirih hijau (*Piper betle* L.) dan potensinya sebagai penghasil senyawa antibakteri. *Current Biochemistry* 1(1): 51-57.
- Qessaoui, R., R. Bouharroud, J. N. Furze, M. El Aalaoui, H. Akroud, A. Amarraque, J. Van Vaerenbergh, R. Tahzima, E. H. Mayad, and B. Chebli. 2019. Applications of new rhizobacteria *Pseudomonas* isolates in agroecology via fundamental processes complementing plant growth. *Scientific reports* 9(1).
- Raheem, A. A., and H. K. Shareef. 2021. Isolation and analysis of nucleotide sequences of the 16S rRNA gene of *Pseudomonas aeruginosa* Isolated from Clinical Samples. *Indian Journal of Forensic Medicine & Toxicology* 15(1): 2193-2198.
- Ravunni, M., and A. Yusuf. 2022. Isolation, characterization and phylogenetic analysis of nodule-associated bacteria from *Mimosa pudica* *Biosciences Biotechnology Research Asia* 19(3): 645-655.
- Saiya, H. G., A. Hiariej, A. Pesik, E. Kaya, M. L. Hehanussa, and F. Puturu. 2020. Dispersion of tongka langit banana in Buru and Seram, Maluku Province, Indonesia, based on topographic and climate factors. *Biodiversitas Journal of Biological Diversity* 21(5): 2035-2046.
- Sawada, H., T. Fujikawa, and M. Satou. 2022. *Pseudomonas aegrilactucaae* sp. nov. and *Pseudomonas morbosilactucaae* sp. nov., pathogens causing bacterial rot of lettuce in Japan. *International Journal of Systematic and Evolutionary Microbiology* 72(11): 005599.

- Setyo-Budi, U., B. Heliyanto, dan Sudjindro. 2004. Eksplorasi sumber genetic abaka di Kepulauan Sangihe-Talaud. *Buletin Plasma Nutfah* 10(2): 77-81.
- Setyowati, P. L. 2018. Penapisan Bakteri Antagonis dari Buah Kakao untuk Menekan Perkembangan Penyakit Busuk Buah Kakao. Fakultas Pertanian. Universitas Gadjah Mada. Skripsi.
- Soesanto, L., E. Mugiastuti, and R. F. Rahayuniati. 2011. Biochemical characteristic of *Pseudomonas fluorescens* P60. *Journal of Biotechnology and Biodiversity* 2: 19-26.
- Sternke, M., K. W. Tripp, and D. Barrick. 2020. The use of consensus sequence information to engineer stability and activity in proteins. In *Methods in enzymology* 643: 149-179.
- Subari, A., A. Razak, dan R. Sumarmin. 2021. Phylogenetic Analysis of *Rasbora* spp. Based on the Mitochondrial DNA COI gene in Harapan Forest. *Jurnal Biologi Tropis* 21(1): 89 – 94
- Sudjindro. 2008. Perbaikan ketahanan abaka terhadap *Fusarium* dan prospek pengembangannya. *Perspektif* 7(2): 80-91.
- Sumardi, I., dan M. Wulandari. 2010. Anatomy and morphology character of five Indonesian banana cultivars (*Musa* spp.) of different ploidy level. *Biodiversitas Journal of Biological Diversity* 11(4): 167-175.
- Sumardiyono, C., S. Suharyanto, S. Suryanti, P. Rositasari, and Y. D. Chinta. 2015. Deteksi Pengimbasan Ketahanan Pisang terhadap Penyakit Layu *Fusarium* dengan Asam Fusarat. *Jurnal Perlindungan Tanaman Indonesia* 19(1): 40-44.
- Syarifah, R. N. K. 2020. Pemanfaatan gulma *Mimosa invisa* sebagai pengendali Organisme Pengganggu Tanaman. *Jurnal Ilmiah Pertanian* 16(2): 59-67.
- Taniwaki, M. H., J. I. Pitt, A. D. Hocking, and G. H. Fleet. 2006. Comparison of hyphal length, ergosterol, mycelium dry weight and colony diameter for quantifying growth of fungi from foods. *Advances in food mycology* 571: 49-67.
- Tapia-García, E. Y., V. Hernández-Trejo, J. Guevara-Luna, F. U. Rojas-Rojas, I. Arroyo-Herrera, G. Meza-Radilla, M. S. Vásquez-Murrieta, P. Estrada-de Los Santos. 2020. Plant growth-promoting bacteria isolated from wild legume nodules and nodules of *Phaseolus vulgaris* L. trap plants in central and southern Mexico. *Microbiological Research* 239 126522.
- Tasnim, S, K. Retno, dan N.P.A. Astiti. 2011. Efektifitas daya hambat bakteri *Streptomyces* sp. terhadap *Erwinia* sp. penyebab penyakit busuk rebah pada tanaman lidah buaya (*Aloe barbadensis* Mill.). *Jurnal Simbiosis I*: 21-27.
- Tindi, M., N. G. F. Mamangkey, S. Wullur. 2017. The DNA barcode and molecular phylogenetic analysis several bivalve species from North Sulawesi waters based on COI gene. *Jurnal Pesisir dan Laut Tropis* 1(2): 32–38.
- Ting, A. S. Y., S. W. Mah and C. S. Tee 2011. Detection of potential volatile inhibitory compounds produced by endobacteria with biocontrol properties towards *Fusarium oxysporum* f. sp. *cubense* race 4. *World Journal Microbiol. Biotechnol* 27: 229–235.
- Tripathi, P., G. Banerjee, M. K. Gupta, S. Saxena, and P. W. Ramteke. 2013. Assessment of phylogenetic affiliation using 16S rRNA gene sequence analysis for *Pseudomonas aeruginosa* in patients of lower respiratory tract infection. *Indian Journal of Medical Research* 138(4): 557-559.
- Uluputty, M. R. 2014. Gulma utama pada tanaman terung di Desa Wanakarta Kecamatan Waeapo Kabupaten Buru. *Jurnal Agrologia* 1(3):37-43.

- USDA. 2009. Musa Taxonomy. <https://acir.aphis.usda.gov/s/cird-taxon/a0ut0000000maHCAAY/musa>. Diakses pada 18 Januari 2024.
- Van Dijk P., J. Sjollema, B. P. Cammue, K. Lagrou, J. Berman, C. d'Enfert, D. R. Andes, M. C. Arendrup, A. A. Brakhage, R. Calderone, E. Cantón, T. Coenye, P. Cos, L. E. Cowen, M. Edgerton, A. Espinel-Ingroff, S. G. Filler, M. Ghannoum, N. A. R. Gow, H. Haas, M. A. Jabra-Rizk, E. M. Johnson, S. R. Lockhart, J. L. Lopez-Ribot, J. Maertens, C. A. Munro, J. E. Nett, C. J. Nobile, M. A. Pfaller, G. Ramage, D. Sanglard, M. Sanguinetti, I. Spriet, P. E. Verweij, A. Warris, J. Wauters, M. R. Yeaman, S. A. J. Zaat, K. Thevissen. 2018. Methodologies for *in vitro* and *in vivo* evaluation of efficacy of antifungal and antibiofilm agents and surface coatings against fungal biofilms. *Microbiology Cell* 5(7): 300-326.
- Rossum, T. V., P. Ferretti, O. M. Maistrenko, and P. Bork. 2020. Diversity within species: interpreting strains in microbiomes. *Nature Reviews Microbiology* 18(9): 491-506.
- Sari, L. P., D. A. Siregar, S. Syafitri, Y. Yunita, dan L. Harahap. 2022. Pengolahan limbah kulit pisang menjadi bahan dasar shampoo di Desa Huta Raja. *Jurnal Pengabdian Masyarakat* 1(2): 120-124.
- Walker, T. S., H. P. Bais, E. Déziel, H. P. Schweizer, L. G. Rahme, R. Fall, and J. M. Vivanco. 2004. *Pseudomonas aeruginosa* plant root interactions. Pathogenicity, biofilm formation, and root exudation. *Plant Physiol* 134: 320–331.
- Wang, E., X. Liu, Z. Si, X. Li, J. Bi, J., Dong, M. Chen, S. Wang, J. Zhang, A. Song, and F. Fan. 2021. Volatile organic compounds from rice rhizosphere bacteria inhibit growth of the pathogen *Rhizoctonia solani*. *Agriculture* 11(4).
- Wulandari, H., Zakiatulyaqin, dan Supriyanto. 2012. Isolasi dan pengujian bakteri endofit dari tanaman lada (*Piper nigrum* L.) sebagai antagonis terhadap patogen hawar beludru (*Septobasidium* sp.). *Jurnal Perkebunan & Lahan Tropika* 2(2): 23-31
- Xie, J., P. Singh, Y. Qi, R. K. Singh, Q. Qin, C. Jin, and W. Fang. 2023. *Pseudomonas aeruginosa* strain 91: a multifaceted biocontrol agent against banana fusarium wilt. *Journal of Fungi* 9(11): 1047.
- Yadav, K., T. Damodaran, K. Dutt, A. Singh, M. Muthukumar, S. Rajan, R. Gopal, and P. C. Sharma. 2021. Effective biocontrol of banana fusarium wilt tropical race 4 by a bacillus rhizobacteria strain with antagonistic secondary metabolites. *Rhizosphere* 18:100341.
- Yasmin, S., F. Y. Hafeez, and G. Rasul. 2014. Evaluation of *Pseudomonas aeruginosa* Z5 for biocontrol of cotton seedling disease caused by *Fusarium oxysporum*. *Biocontrol science and technology*, 24(11): 1227-1242.
- Zhang, L., Y. Guo, Y. Y. Wang, W. Tang, and S. J. Zheng. 2017. Protoplasts transformation and gene knockout system of *Fusarium oxysporum* f. sp. *ubense* TR4. *Acta Phytopathologica Sinica* 47(2): 1-6.
- Ziedan, E. H., E. S. Farrag, and M. M. Saad. 2007. Evaluation of some fungi and bacteria as biological agents to Fusarium wilt of banana. *Journal of Plant Production* 32(5): 3423-3437.